

Lesson Plan

Name of the Faculty : SH. JAGDEEP SANGWAN
 Discipline : Mechanical Engg.
 Semester : 5th
 Subject : Computer Aided Drafting
 Lesson plan duration : 15 weeks (from July, 2018 to November, 2018)

Week	Topic
Week 1	Introduction to AutoCAD : Starting up, practice on – how to create a new drawing file, setting drawing limits & saving a file, drawing lines in different ways using absolute co- ordinates, user co-ordinates, WCS, s.
	Practice
Week 2	UCS, drawing circles, drawing arcs, drawing ellipses. Drawing polygons, drawings splines. Drawing polylines, using window, zoom command
	Practice
Week 3	Practice on Edit commands such as erase, copy, mirror, array, offset, rotate, oops, undo, redo,
	Practice
Week 4	scale, stretch, trim, break, extend, chamfer, fillet, O snap command
	Practice

Week 5	Practice on Text commands: editing text, text size,
	Practice
Week 6	text styles, change properties commands.
	Practice
Week 7	Practice on Layer Commands: creating layer, freeze, layer on/off colour assigning, current layer
	Practice
Week 8	load line type, lock & unlock layer, move from one layer to other.
	Practice
Week 9	Practice on Hatching, Hatch pattern selection.
	Practice
	Practice on Dimensioning, linear dimensioning, angular dimensioning radius.

Week 10	Practice
Week 11	<p>diameter dimensioning O-snap command, aligned dimensioning, editing of dimensioning, tolerances in dimensioning</p> <p>Practice</p>
Week 12	<p>Practice on print/plot commands. Export/import commands.</p> <p>Practice</p>
Week 13	<p>Practice on making complete drawings of components by doing following exercises: a) Detail and assembly drawing of the following using AUTOCAD (2D) (4 sheets) - Plummer Block - Wall Bracket - Stepped pulley, V-belt pulley - Flanged coupling - Machine tool Holder (Three views) - Screw jack or knuckle joint 114 b) Isometric Drawing by CAD using Auto CAD (one sheet) Drawings of following on computer: - Cone - Cylinder - Isometric view of objects</p> <p>Practice</p>
Week 14	<p>Modelling (02 sheets) 3D modelling, Transformations, scaling, rotation, translation</p> <p>Creating Chamfer and Fillet Practice on surface modeling, create part file, practice on assembly of parts, creating assembly view, orthographic views, section view (Practice on different views, practice on data transfer)</p>
	<p>Practice</p> <p>Introduction to Other Softwares; (Pro Engineer/CATIA /</p>

	Inventor/Unigraphics/Solid Work: Salient features.
Week 15	Practice